

#### **ABSTRACT OF THE DISCLOSURE**

It is made possible to concretely estimate actual transmission bit rate in a frame of grasping a line state by using a report packet.

5       Together with media packets encoded by a video encoder 1 and an audio encoder 2, a sender report packet generated by a sender report generation section 3 is sent to the transmission line. A receiver report packet is fed back from the receiver side. Each of the sender report packet and the receiver report 10 packet includes report packets of two kinds differing in size. A rate estimation section 4 estimates transmission bit rate on the basis of round-trip delay time for the sender report packet and the receiver report packet each having a small size and round-trip delay time for the sender report packet and the 15 receiver report packet each having a large size.